

Operation Community Water Footprint Curriculum Connections

- ❖ Allows students to calculate how much source water their community uses in order to produce each litre of drinking water
- ❖ One content integrated lesson - over 6 periods
- ❖ Applies to Grades 6 - 12
- ❖ Curriculum Connections last updated February 2022.

Alberta	5
Grade Six	5
Grade Seven	5
Grade Eight	5
Grade Nine	6
Grade Eleven	6
Grade Twelve	7
British Columbia	8
Grade Six	8
Grade Seven	9
Grade Eight	9
Grade Nine	10
Grade Ten	11
Grade Eleven	12
Grade Twelve	13
Manitoba	15
Grade Six	15
Grade Seven	15
Grade Eight	16
Grade Nine	17

Grade Ten.....	17
Grade Eleven.....	18
New Brunswick.....	19
Grade Six.....	19
Grade Seven.....	19
Grade Eight.....	20
Grade Nine.....	20
Grade Ten.....	20
Grade Eleven.....	21
Newfoundland and Labrador.....	23
Grade Six.....	23
Grade Seven.....	23
Grade Eight.....	24
Grade Nine.....	24
Secondary Grades.....	25
Northwest Territories.....	30
See Alberta's and Saskatchewan's Curriculum.....	30
Nova Scotia.....	31
Grade Six.....	31
Grade Seven.....	32
Grade Eight.....	34
Grade Nine.....	35
Grade Ten.....	36
Grade Eleven.....	36
Grade Twelve.....	37
Nunavut.....	38
See Alberta's Curriculum.....	38

Ontario	39
Grade Six	39
Grade Seven	39
Grade Eight	40
Grade Nine	41
Grade Ten	43
Grade Eleven	43
Grade Twelve	44
Prince Edward Island	46
Grade Seven	46
Grade Eight	47
Grade Nine	47
Grade Ten	47
Grade Eleven	47
Grade Twelve	48
Quebec	49
Elementary Cycle Two and Three	49
Secondary Cycle Two	50
Saskatchewan	51
Grade Six	51
Grade Seven	51
Grade Eight	52
Grade Nine	53
Grade Ten	53
Grade Eleven	54
Grade Twelve	54
Yukon	55

See British Columbia's Curriculum 55

Alberta
Grade Six
Math

Curriculum Last Updated: 2016

Number

- 2: Solve problems involving whole numbers and decimal numbers
- 8: Demonstrate an understanding of multiplication and division of decimals (1-digit whole number multipliers and 1-digit natural number divisors)

Grade Seven
Math

Curriculum Last Updated: 2016

Number

- 2: Demonstrate an understanding of addition, subtraction, multiplication and division of decimals to solve problems (for more than 1-digit divisors or 2-digit multipliers, the use of technology is expected).

Grade Eight
Science

Curriculum Last Updated: 2014

Unit A: Mix and Flow of Matter

- 1: Investigate and describe fluids used in technological devices and everyday materials

Unit E: Freshwater and Saltwater Systems (Social and Environmental Emphasis)

- 1: Describe the distribution and characteristics of water in local and global environments, and identify the significance of water supply and quality to the needs of humans and other living things
- 4: Analyze human impacts on aquatic systems; and identify the roles of science and technology in addressing related questions, problems and issues

**Grade Nine
Science**

Curriculum Last Updated: 2014

Unit C: Environmental Chemistry (Social and Environmental Emphasis)

- 1: Investigate and describe, in general terms, the role of different substances in the environment in supporting or harming humans and other living things
- 2: Identify processes for measuring the quantity of different substances in the environment and for monitoring air and water quality
- 3: Analyze and evaluate mechanisms affecting the distribution of potentially harmful substances within an environment

**Grade Eleven
Science**

Curriculum Last Updated: 2014

Unit D: Changes in Living Systems

- 1: Analyze ecosystems and ecological succession in the local area and describe the relationships and interactions among subsystems and components
- 2: Analyze and investigate the cycling of matter and the flow of energy through the biosphere and ecosystem as well as the interrelationship of society and the environment

Biology

Curriculum Last Updated: 2014

Unit A: Energy and Matter Exchange in the Biosphere

- 2: Students will explain the cycling of matter through the biosphere

Chemistry

Curriculum Last Updated: 2014

Unit C: Matter as Solutions, Acids and Bases

- 1: Investigate solutions, describing their physical and chemical properties
- 2: Describe acidic and basic solutions qualitatively and quantitatively

**Grade Twelve
Science**

Curriculum Last Updated: 2014

Unit B: Chemistry and the Environment

- 1: Analyze the sources of acids and bases and their effects on the environment
- 3: Analyze, from a variety of perspectives, the risks and benefits of using chemical processes in meeting human needs and assess technologies for reducing the impact of chemical compounds on the environment

British Columbia

Grade Six

Math

Curriculum Last Updated: 2016

Big Ideas

- Mixed numbers and decimal numbers represent quantities that can be decomposed into parts and wholes
- Computational fluency and flexibility with numbers extend to operations with whole numbers and decimals

Content

- Small to large numbers
- Multiplication and division facts to 100
- Order of operations with whole numbers
- Multiplication and division of decimals
- Volume and capacity

Science

Curriculum Last Updated: 2016

Big Ideas

- Everyday materials are often mixtures

Content

- Heterogeneous mixtures

Social Studies

Curriculum Last Updated: 2016

Big Ideas

- Systems of government vary in their respect for human rights and freedoms

Content

- Economic policies and resource management, including effects on indigenous peoples

Grade Seven Math

Curriculum Last Updated: 2016

Big Ideas

- Decimals, fractions, and percents are used to represent and describe parts and wholes of numbers
- Computational fluency and flexibility with numbers extend to operations with integers and decimals

Content

- Multiplication and division facts to 100 (extending computational fluency)
- Operations with integers (addition, subtraction, multiplication, division, and order of operations)
- Operations with decimals (addition, subtraction, multiplication, division, and order of operations)

Science

Curriculum Last Updated: 2016

Content

- Survival needs
- Elements and compounds are pure substances

Social Studies

Curriculum Last Updated: 2016

Content

- Human responses to particular geographic challenges and opportunities, including climates, landforms, and natural resources
- Scientific, philosophical, and technological developments

Grade Eight Math

Curriculum Last Updated: 2016

Big Ideas

- Computational fluency and flexibility extend to operations with fractions

Content

- Operations with fractions (addition, subtraction, multiplication, division, and order of operations)
- Expressions - writing and evaluating using substitution

Social Studies

Curriculum Last Updated: 2016

Big Ideas

- Human and environmental factors shape changes in population and living standards

Content

- Scientific and technological innovations
- Changes in population and living standards

Grade Nine

Math

Curriculum Last Updated: 2016

Big Ideas

- Computational fluency and flexibility with numbers extend to operations with rational numbers

Content

- Operations with rational numbers (addition, subtraction, multiplication, division, and order of operations)

Science

Curriculum Last Updated: 2016

Big Ideas

- The biosphere, geosphere, hydrosphere, and atmosphere are interconnected, as matter cycles and energy flows through them

Content

- Matter cycles within biotic and abiotic components of ecosystems
- Sustainability of systems

Social Studies

Curriculum Last Updated: 2016

Big Ideas

- The physical environment influences the nature of political, social, and economic change

Content

- Political, social, economic, and technological revolutions
- Imperialism and colonialism, and their continuing effects on indigenous peoples in Canada and around the world
- Physiographic features and natural resources in Canada

Grade Ten

Science

Curriculum Last Updated: 2018

Big Ideas

- Energy change is required as atoms rearrange in chemical processes

Content

- How do chemical processes - personal, local, or global - affect your life?
- What safety considerations need to be taken into account when dealing with chemicals?

Social Studies

Curriculum Last Updated: 2018

Big Ideas

- Worldviews lead to different perspectives and ideas about developments in Canadian society.

Content

- Environmental issues, including climate change, renewable energy, overconsumption, water quality, food security, conservation

Grade Eleven Life Sciences

Curriculum Last Updated: 2018

Big Ideas

- Life is a result of interactions at the molecular and cellular levels

Content

- Identification of bacteria and viruses
- Through the study of viruses and bacteria, how might scientists find new and innovative ways to prevent the spread of future diseases?

Chemistry

Curriculum Last Updated: 2018

Big Ideas

- Organic chemistry and its applications have significant implications for human health, society, and the environment

Content

- How could you measure negative and/or positive impacts of chemical reactions on human health, society, and the environment in your local community?
- How do lab techniques contribute to safety?

Science and Technology

Curriculum Last Updated: 2008

E1: Describe the major natural resources found in British Columbia

E2: Evaluate methods used in the extraction, processing, use and management of a locally used or produced resource

- Describe how water is prepared for public consumption or use

- Debate the use of political control of the management of a given resource

E3: Discuss the impact of society on natural resource management and the environment

- Describe local and global environmental issues

E4: Analyze the impact of technologies on the environment

- Identify technologies associated with the extraction of a natural resource
- Explore the relationship between the technology used for the extraction of water and its impact on the environment
- Describe the link between a local environmental issue and the use of technology

Social Studies

Curriculum Last Updated: 2018

Big Ideas

- Physical features and natural resources influence demographic patterns and population distribution (adapted from *Human Geography 12*)
- Decision making in urban and regional planning requires balancing political, economic, social, and environmental factors (from *Urban Studies 12*)

Content

- Natural resource use and local, regional, national, or global development (adapted from *Human Geography 12*)

Grade Twelve

Biology

Curriculum Last Updated: 2006

A3: Interpret data from a variety of text and visual sources

- Using the data found throughout the lessons students will be able to make inferences and generalizations
- Draw and present conclusions

B2: Describe the characteristics of water and its role in biological systems

- Describe the role of water and understand the chemicals it is treated with and for

Geology

Curriculum Last Updated: 2018

Big Ideas

- Weathering and erosion processes continually reshape landscapes through the interaction of the geosphere with the hydrosphere and atmosphere

Content

- What impacts do human activities have on local and global groundwater resources?

Geography

Curriculum Last Updated: 2018

Big Ideas

- Human activities alter landscapes in a variety of ways

Content

- Relationships between natural resources and patterns of population settlement and economic development
- Industrialization, trade, and natural resource demands

Manitoba
Grade Six
Mathematics

Curriculum Last Updated: 2013

Number

- 6.N.2: Solve problems involving large numbers, using technology
- 6.N.3: Demonstrate an understanding of factors and multiples by determining multiples and factors of numbers less than 100, identifying prime and composite numbers, and solving problems involving factors or multiples
- 6.N.6: Demonstrate an understanding of percent (limited to whole numbers), concretely, pictorially, and symbolically
- 6.N.8: Demonstrate an understanding of multiplication and division of decimals (involving 1-digit whole-number multipliers, 1-digit natural number divisors, and multipliers and divisors that are multiples of 10), concretely, pictorially, and symbolically, by using personal strategies, using the standard algorithms, using estimation, and solving problems

Grade Seven
Mathematics

Curriculum Last Updated: 2013

Number

- 7.N.2: Demonstrate an understanding of the addition, subtraction, multiplication, and division of decimals to solve problems (for more than 1-digit divisors or 2-digit multipliers, technology could be used)
- 7.N.3: Solve problems involving percents from 1% to 100%

Science

Curriculum Last Updated: 2000

Cluster 1: Interactions within Ecosystems

- 7-1-03: Identify abiotic and biotic components of ecosystems that allow particular organisms to survive
- 7-1-05: Identify and describe positive and negative examples of human interventions that have a impact on ecological succession or the makeup of ecosystems

Social Studies

Curriculum Last Updated: 2006

Cluster 2: Global Quality of Life

- 7-KC-002: Describe the impact of various factors on quality of life in Canada and elsewhere in the world

Cluster 4: Human Impact in Europe or the Americas

- 7-KL-026: Identify human activities that contribute to climate change
- 7-KL-027: Describe social, environmental, and economic consequences of climate change
- 7-VL-009: Be willing to take actions to help sustain the natural environment in Canada and the world
- 7-VE-017: Be willing to consider the consequences of their consumer choices

Grade Eight

Mathematics

Curriculum Last Updated: 2013

Number

- 8.N.3: Demonstrate an understanding of percents greater than or equal to 0%
- 8.N.8: Solve problems involving positive rational numbers

Science

Curriculum Last Updated: 2000

Cluster 4: Water Systems

- 8-4-14: Identify sources of drinking water and describe methods for obtaining water in areas where supply is limited
- 8-4-15: Explain how and why water may need to be treated for use by humans
- 8-4-16: Compare the waste-water disposal system within their communities to one used elsewhere
- 8-4-17: Identify substances that may pollute water, related environmental and societal impacts of pollution, and ways to reduce or eliminate effects of pollution
- 8-4-18: Identify environmental, social, and economic factors that should be considered

Grade Nine Mathematics

Curriculum Last Updated: 2014

Number

- 9.N.3: Demonstrate an understanding of rational numbers by solving problems that involve arithmetic operations on rational numbers

Social Studies

Curriculum Last Updated: 2007

Cluster 3: *Canada in the Global Context*

- 9.3.1: *Living in the Global Village*
- 9.3.2: *Canada's Global Responsibilities*
- 9.3.3: *Living in an Industrialized Consumer Society*

Grade Ten

Science

Curriculum Last Updated: 2001

Cluster One: *Dynamics of Ecosystems*

- S2-1-01: Illustrate and explain how carbon nitrogen, and oxygen are cycled through an ecosystem
- S2-1-02: Discuss factors that may disturb biochemical cycles
- S2-1-10: Investigate how human activities affect an ecosystem and use the decision-making process to propose a course of action to enhance its sustainability

Social Studies

Curriculum Last Updated: 2006

Cluster 1: *Geographic Literacy*

- 1.4: *Global Environmental Types*
- 1.5: *Why Care?*

Cluster 2: *Natural Resources*

- 2.3: *Sustainable Development*

Cluster 5: Urban Places

- 5.3: Environmental and Economic Issues
- 5.4: The Impact of Urbanization

**Grade Eleven
Chemistry**

Curriculum Last Updated: 2006

Topic 4: Solutions

- C11-4-19: Describe the process of treating a water supply, identifying the allowable concentrations of metallic and organic species in water suitable for consumption

History of Canada

Curriculum Last Updated: 2014

Cluster 5: Defining Contemporary Canada (1982-Present)

- 11.5.3: How are the First Nations, Métis, and Inuit peoples seeking a greater degree of cultural, political, and economic self-determination?

New Brunswick

Grade Six

Math

Curriculum Last Updated: 2010

- Number: Develop number sense
- Data Analysis: Collect, display and analyze data to solve problems

Grade Seven

Math

Curriculum Last Updated: 2008

- Number: Develop number sense
- Data Analysis: Collect, display and analyze data to solve problems

Science

Curriculum Last Updated: 2002

Unit 1: Interactions within Ecosystems

- 306-3: Describe interactions between biotic and abiotic factors in an ecosystem
- 306-4: Identify signs of ecological succession in a local ecosystem

Social Studies

Curriculum Last Updated: 2005

Unit 1: Introduction

- 7.1.1: Explore the general concept of empowerment

Unit 2: Economic Empowerment

- 7.2.2: Investigate the various ways economic systems empower or disempowered people
- 7.2.3: Analyze trends that could impact future economic empowerment

Unit 3: Political Empowerment

- 7.3.1: Evaluate the conditions of everyday life for diverse peoples living in British North America in the mid-1800s, including Aboriginal peoples, African-Canadians and Acadians

Unit 4: Cultural Empowerment

- 7.4.3: Analyze the degree of empowerment and disempowerment for Aboriginal peoples in present day Atlantic Canada

Grade Eight

Math

Curriculum Last Updated: 2009

- Number: Develop number sense
- Data Analysis: Collect, display and analyze data to solve problems

Grade Nine

Math

Curriculum Last Updated: 2010

Number

- SCO N3: Demonstrate an understanding of rational numbers by solving problems that involve arithmetic operations on rational numbers

Science

Curriculum Last Updated: 2002

Unit 2: Physical Science: Atoms and Elements

- 307-12: Investigate materials and describe them in terms of their properties
- 307-13: Describe changes in the properties of materials that result from some common chemical reactions

Social Studies

Curriculum Last Updated: 2006

Unit 4: Citizenship

- 9.4.1: Take age-appropriate actions that demonstrate the rights and responsibilities of citizenship

Grade Ten

Science

Curriculum Last Updated: 2002

Unit 1: Life Science: Sustainability of Ecosystems

- 318-1: Illustrate the cycling of matter through biotic and abiotic components of an ecosystem by tracking carbon, nitrogen, and oxygen
- 318-6: Explain how biodiversity of an ecosystem contributes to its sustainability
- 331-6: Analyze the impact of external factors on an ecosystem

Grade Eleven

Biology 111/112

Curriculum Last Updated: 2008

Unit 2: Biodiversity

- 331-6: Analyze the impact of external factors on an ecosystem

Unit 3: Maintaining Dynamic Equilibrium

- 314-1: Identify chemical elements that are commonly found in living systems
- 314-2: Identify the role of compounds, such as water, found in living systems
- 314-3: Identify and describe the structure and function of important biochemical compounds, including carbohydrates, proteins and lipids

Environmental Science 120

Curriculum Last Updated: 2012

Unit 1: An Overview of Environmental Science

- Explore and communicate current understanding of local, regional and global environmental issues
- Identify links between personal behavior and local, regional and global environmental issues
- Identify ways to measure environmentally sustainable behaviours, and describe links to economic and social factors
- Become aware of the range of issues arising from overpopulation and human activity
- Explore one or a few local or regional issues with respect to the impact on the environment, and on history, economics and social systems
- Practice research and presentation skills including experimenting to test environmental impact, identifying and accessing various organizations for information and expertise, and considering the legislation which impacts on environmental issues.
- Explore how technology is used to gather and communicate information, and to address the issues

Unit 2: Sustainable Development

- Recognize that humans are just one part of a complex system of living things, with an inordinate impact on the biosphere, often accelerated by the use of technology
- Explore how the development of technologies has affected land and water use
- Find examples of development that is sustainable and is not sustainable - ecologically, economically, socially, and culturally

Unit 3: Optional topics for Study (Fresh Water Use)

- Describe water use, locally, nationally, and globally
- Develop an understanding of the natural fresh water ecology and the impact of people
- Design and carry out an experiment to test the impact of people on fresh water ecology
- Describe ways in which we can use water more sustainably
- Contact relevant local, regional and/or national organizations and government agencies, and identify their mandate and perspective on water issues
- Demonstrate the effective and critical use of a variety of investigation and research methods

Newfoundland and Labrador

Grade Six

Mathematics

Curriculum Last Updated: 2015

Numeration

- SCO 6N1: Demonstrate an understanding of place value, including numbers that are greater than one million

Social Studies

Curriculum Last Updated: 2007

Unit 2: Environment and Culture

- 6.2.2: Assess the relationship between culture and environment in a selected cultural region
- 6.2.3: Compare the use of resources and sustainability practices between Canada and a selected country

Unit 5: World Issues

- 6.5.2: Examine selected examples of human rights issues around the world
- 6.5.3: Take age-appropriate actions to demonstrate an understanding of responsibilities as global citizens

Grade Seven

Science

Curriculum Last Updated: 2013

Unit 1: Interactions within Ecosystem

- 306-3: Describe interactions between biotic and abiotic factors in an ecosystem

Unit 3: Mixtures and Solutions

- 307-2: Identify and separate the components of mixtures

Social Studies

Curriculum Last Updated: 2004

Unit 5: Societal Empowerment

- 7.5.1: Evaluate the conditions of everyday life for the peoples of Canada at the turn of the 20th century

Grade Eight Science

Unit 2: Fluids

Curriculum Last Updated: 2010

- 307-6: Compare the viscosity of various liquids
- 307-7: Describe factors that can modify the viscosity of a liquid
- 307-8: Describe the relationship between the mass, volume, and density of solids, liquids, and gases using the particle theory of matter

Grade Nine Mathematics

Curriculum Last Updated: 2014

Rational Numbers

- SCO 9N3: Demonstrate an understanding of rational numbers by solving problems that involve arithmetic operations on rational numbers

Social Studies

Curriculum Last Updated: 2011

Unit Six: Canada's Changing Identity: Creating a Preferred Future

- SCO 15: The student will be expected to demonstrate an understanding of economic challenges and opportunities that may affect Canada's future
- SCO 16: The student will be expected to demonstrate an understanding of political challenges and opportunities that may affect Canada's future
- SCO 17: The student will be expected to demonstrate an understanding of social and cultural challenges and opportunities that may affect Canada's future

Secondary Grades

Biology 2201

Curriculum Last Updated: 2020

GCO 1 Students will develop an understanding of the nature of science and technology, of the relationships between science and technology, and of the social and environmental contexts of science and technology.

- 27.0 analyze natural systems to interpret and explain their structure and dynamics
- 32.0 analyze from a variety of perspectives the risks and benefits to society and the environment of applying scientific knowledge or introducing a particular technology
- 34.0 provide examples of how science and technology are an integral part of their lives and their community
- 35.0 distinguish between scientific questions and technological problems
- 36.0 propose courses of action on social issues related to science and technology, taking into account an array of perspectives, including that of sustainability

GCO 3 Students will construct knowledge and understandings of concepts in life science, physical science, and Earth and space science, and apply these understandings to interpret, integrate, and extend their knowledge.

- 28.0 analyze interactions within and between populations
- 33.0 evaluate Earth's carrying capacity, considering human population growth and its demands on natural resources

Canadian Geography 1202

Curriculum Last Updated: 2012

2.1 Understandings

- 2.1.4: Activities and issues related to how Canadians use resources on the land
- 2.1.5: Activities and issues related to how Canadians use resources in the ocean environment

Canadian History 1201

Curriculum Last Updated: 2011

Unit 7: Issues in Canada

- 7.0: The student will be expected to demonstrate an understanding of important contemporary issues in Canada
- 7.1: Aboriginal rights: legislation, women's rights, land claims, self-government

Environmental Science 3205

Curriculum Last Updated: 2010

Unit 1: Introduction to Environmental Science

- 1.03: Describe the Newfoundland and Labrador transition, from aboriginals, European settlers, to present day, in terms of how they impacted the land
- 1.08: Identify the relationship between human population growth, demand for resources, and increased consumerism
- 1.11: Define environmental conservation
- 1.16: Recognize that environmental monitoring is an essential component of sustainability
- 1.19: Describe your community's impact on the environment
- 1.20: Describe environmental responsibility. Include the role of individuals, community, industry, and government
- 1.21: Define eco-citizenship. Include knowledge, attitude, and practice
- 1.40: Identify career opportunities related to the study of environmental issues

Unit 4: Water Use and the Environment

- 4.02: Recognize that water is a finite resource
- 4.12: Identify physical, biological, and chemical impacts on water quality
- 4.13: Evaluate the impacts of human activities on the water resources. Include personal use, community use, and global use
- 4.18: List the main sources of drinking water in Newfoundland and Labrador. Include surface water, well water (dug and drilled), and "spring" water
- 4.19: Outline the risks involved in drinking untreated water. Include E-coli, giardia, hepatitis, and parasitic worms
- 4.20: Identify the main components of the multi-barrier approach to ensure safe drinking water
- 4.21: Identify the phases of treating municipal water. Include pre-treatment (screening, flocculation and sedimentation), treatment (chlorination, ozonation, ultraviolet light), and post treatment (fluoridation, water softening)
- 4.22: Describe alternate methods of water treatment. Include boiling, carbon filtering, distillation, and reverse osmosis
- 4.23: List sources of wastewater. Include municipal and industrial
- 4.25: Describe the disposal and treatment methods for municipal and industrial effluent. Include treatment plants, lagoons (containment system), constructed wetlands, septic systems, and out houses

Science 1206

Curriculum Last Updated: 2018

Unit 4: Sustainability of Ecosystems

- 68.0: Illustrate and explain the cycling of matter through biotic and abiotic components of an ecosystem by tracking carbon, nitrogen, and oxygen
- 71.0: Analyze the impact of external factors on an ecosystem

Social Studies 3201

Curriculum Last Updated: 2020

SCO 4.0: Demonstrate an understanding of quality of life

- 4.1: explain the concept of quality of life
- 4.2: explain indicators that can be used to measure quality of life
- 4.3: explain how innovations and ideas in the past influenced quality of life

SCO 6.0: Evaluate the relationship between sustainability and quality of life

- 6.1: explain the concept of sustainability
- 6.2: explain how sustainability influences the human experience
- 6.3: respond to issues related to sustainability

SCO 7.0: Demonstrate an understanding of how economic factors influence quality of life

- 7.1: explain the concept of economic disparity
- 7.2: explain factors that influence economic disparity

SCO 9.0: Respond to issues of political and economic concern that influence quality of life

- 9.1: identify the issue
- 9.2: analyze the issue
- 9.3: develop a cogent response to the issue

SCO 10.0: Demonstrate an understanding of how population changes influence quality of life

- 10.1: explain the relationship between population, carrying capacity, science and technology

SCO 11.0: Respond to issues related to population that influence quality of life

- 11.1: identify the issue

- 11.2: analyze the issue
- 11.3: develop a cogent response to the issue

SCO 12.0: Demonstrate an understanding of how human-environmental interactions influence quality of life

- 12.1: explain the relationship between natural resource use and quality of life
- 12.2: explain the consequences of issues arising from human-environmental interaction
- 12.3: evaluate responses to issues of human-environmental interaction

SCO 13.0: Respond to issues related to human-environmental interaction that influence quality of life

- 13.1: identify the issue
- 13.2: analyze the issue
- 13.3: develop a cogent response to the issue

Social Studies 3202

Curriculum Last Updated: 2021

SCO 4.0: Demonstrate an understanding of quality of life

- 4.1: explain the concept of quality of life
- 4.2: explain indicators that can be used to measure quality of life
- 4.3: explain how innovations and ideas in the past influenced quality of life

SCO 6.0: Evaluate the relationship between sustainability and quality of life

- 6.1: explain the concept of sustainability
- 6.2: explain how sustainability influences the human experience
- 6.3: respond to issues related to sustainability

SCO 7.0: Demonstrate an understanding of how economic factors influence quality of life

- 7.1: explain the concept of economic disparity
- 7.2: explain factors that influence economic disparity

SCO 9.0: Respond to issues of political and economic concern that influence quality of life

- 9.1: identify the issue

- 9.2: analyze the issue
- 9.3: develop a cogent response to the issue

SCO 10.0: Demonstrate an understanding of how population changes influence quality of life

- 10.1: explain the relationship between population, carrying capacity, science and technology

SCO 11.0: Respond to issues related to population that influence quality of life

- 11.1: identify the issue
- 11.2: analyze the issue
- 11.3: develop a cogent response to the issue

SCO 12.0: Demonstrate an understanding of how human-environmental interactions influence quality of life

- 12.1: explain the nature of natural resource use and quality of life
- 12.2: explain the consequences of issues arising from human-environmental interaction
- 12.3: evaluate responses to issues of human-environmental interaction

SCO 13.0: Respond to issues related to human-environmental interaction that influence quality of life

- 13.1: identify the issue
- 13.2: analyze the issue
- 13.3: develop a cogent response to the issue

Northwest Territories

See Alberta's and Saskatchewan's Curriculum

The Northwest Territories makes use of Alberta's curriculum for K-12 math, as well as grade 7 to grade 12 sciences and social studies, physical education, and career and technology studies. It also makes use of Saskatchewan's curriculum for grade 1 to grade 9 arts education and Alberta's curriculum for high school arts education.

Nova Scotia
Grade Six
Math

Curriculum Last Updated: 2014

N01: Students will be expected to demonstrate an understanding of place value for numbers greater than one million and less than one thousandth.

- N01.01: Explain how the pattern of the place-value system (e.g., the repetition of ones, tens, and hundreds) makes it possible to read and write numerals for numbers of any magnitude
- N01.12: Establish personal referents for large numbers
- N01.13: Provide examples of where large whole numbers and small decimal numbers are used

Social Studies

Curriculum Last Updated: 2015

General Curriculum Outcomes

Citizenship, Power, and Governance

- A: Demonstrate an understanding of the rights and responsibilities of citizenship and the origins, functions, and sources of power, authority, and governance

Interdependence

- D: Demonstrate an understanding of the interdependent relationship among individuals, societies, and the environment—locally, nationally, and globally—and the implications for a sustainable future

People, Place, and Environment

- E: Demonstrate an understanding of the interactions among people, places, and the environment

Specific Curriculum Outcomes

Unit Five: World Issues

- 6.5.3: Take age-appropriate actions to demonstrate an understanding of responsibilities as global citizens

Grade Seven

Math

Curriculum Last Updated: 2015

- SCO N02: Students will be expected to demonstrate an understanding of the addition, subtraction, multiplication, and division of decimals to solve problems (for more than one-digit divisors or more than two-digit multipliers, the use of technology is expected)

Science

Curriculum Last Updated: 2014

Life Science: Interactions Within Ecosystems

Components of an Ecosystem

- 208-2, 208-3, 210-1: Identify questions, investigate, and record collected data on the ecosystem's components using materials effectively
- 306-3: Describe interactions between biotic and abiotic factors in an ecosystem
- 304-1, 109-1, 109-12: Distinguish and explain how biological classification reflects the diversity of life on Earth, using specific terms and characteristics

Action

- 113-11, 211-5, 113-10: Defend a proposal to protect a habitat and provide examples of various issues that can be addressed in multiple ways
- 112-4, 112-8, 209-5: Research individuals/groups in Canada that focus on the environment, using various print and electronic sources

Social Studies

Curriculum Last Updated: 2014

General Curriculum Outcomes

Culture and Diversity

- D: Demonstrate an understanding of the interdependent relationship among individuals, societies, and the environment-locally, nationally, and globally-and the implications for a sustainable future

Interdependence

- E: Demonstrate an understanding of the interactions among people, places, and the environment

Specific Curriculum Outcomes

Unit One: Introduction

- 7.1.1: Explore the general concept of empowerment

Unit Two: Economic Empowerment

- 7.2.2: Investigate the various ways economic systems empower or disempower people
- 7.2.3: Analyze trends that could impact future economic empowerment

Unit Three: Political Empowerment

- 7.3.2: Analyze how the struggle for responsible government was an issue of political empowerment and disempowerment

Unit Four: Cultural Empowerment

- 7.4.3: Analyze the degree of empowerment and disempowerment for Aboriginal peoples in present day Atlantic Canada during this period

Unit Seven: Reflection

- 7.7.1: Portray an understanding of the extent of empowerment of individuals, groups, and the nation up to 1920

Grade Eight Science

Curriculum Last Updated: 2014

Physical Science: Fluids

Forces in Fluids

- 111-1, 113-2: Provide examples and a course of action of how science and technology affect personal and community needs

Social Studies

Curriculum Last Updated: 2014

General Curriculum Outcomes

Culture and Diversity

- D: Demonstrate an understanding of the interdependent relationship among individuals, societies, and the environment-locally, nationally, and globally-and the implications for a sustainable future

Interdependence

- E: Demonstrate an understanding of the interactions among people, places, and the environment

Specific Curriculum Outcomes

Unit Four: Citizenship

- 8.4.1: take age-appropriate actions that demonstrate the rights and responsibilities of citizenship (local, national, and global)
- 8.4.3: demonstrate an understanding of the structure and operation of government in Canada under a federal system

Grade Nine Science

Curriculum Last Updated: 2014

Atoms and Elements

Physical and Chemical Changes

- 209-7, 111-6, 210-11: Perform experiments, collect evidence, report findings, and demonstrate a knowledge of WHMIS standards in the laboratory
- 307-12: Investigate materials and describe them in terms of their physical properties
- 307:13: Describe changes in the properties of materials that result from some common chemical reactions

Periodic Table

- 210-1, 210-2: Use the periodic table as a classification system and compile data about its structure
- 112-3, 112-8: Explain and provide examples of how society's needs for chemistry incorporate science, technology, and environment

Social Studies

Curriculum Last Updated: 2014

General Curriculum Outcomes

Culture and Diversity

- D: Demonstrate an understanding of the interdependent relationship among individuals, societies, and the environment-locally, nationally, and globally-and the implications for a sustainable future

Interdependence

- E: Demonstrate an understanding of the interactions among people, places, and the environment

Specific Curriculum Outcomes

Theme One: Physical Setting

- 9.1.4: Link human activity to the natural resources of the Atlantic region

Theme Five: Interdependence

- 9.5.1: Explore his/her concept of world view and explain the factors that influence and are influenced by it
- 9.5.3: Access the individual qualities and attributes Atlantic Canadians need to become contributing members of the global community
- 9.5.4: Demonstrate an understanding that the future well-being of Atlantic Canada involves co-operation with the national and global communities

Grade Ten

Science

Curriculum Last Updated: 2012

Life Science: Sustainability of Ecosystems

- 114-1: Question and analyze how a paradigm shift in sustainability can change society's views
- 318-2, 318-5: Distinguish between biotic and abiotic factors, determining the impact on the consumers at all trophic levels due to bioaccumulation, variability, and diversity
- 214-1, 318-6: Describe how the classification involved in the biodiversity of an ecosystem is responsible for its sustainability
- 212-4, 214-3, 331-6: Predict and analyze the impact of external factors on the sustainability of an ecosystem, using a variety of formats
- 213-7, 215-1, 318-4: Diagnose and report the ecosystem's response to short-term stress and long-term change

Grade Eleven

Chemistry

Curriculum Last Updated: 2015

Calculations and Chemical Equations

- 214-13: Identify practical problems that involve technology where equations were used
- 213-3: Use instruments effectively and accurately for collecting data

- 215-1: Communicate questions, ideas, and intentions, and receive, interpret, understand, support, and respond to the ideas of others

Applications of Stoichiometry

- 214-12: Explain how data support or refute the hypotheses or prediction of chemical reactions
- 117-2: Analyze society's influence on science and technology

Grade Twelve Chemistry

Curriculum Last Updated: 2015

Electrochemistry

Oxidation and Reduction

- 115-1: Distinguish between scientific questions and technological problems

Concentration, Properties, and Solubility

- 213-5: Compile and organize solution data, using appropriate formats and data treatments to facilitate interpretation of solubility
- 323-6: Determine the molar solubility of a pure substance in water

Nunavut

See Alberta's Curriculum

Nunavut uses Alberta's math, science, English language arts and health curriculum.

Ontario
Grade Six
Mathematics

Curriculum Last Updated: 2020

B1. Number Sense - Fractions, Decimals, and Percents.

B1.4 Read, represent, compare, and order decimal numbers up to thousandths, in various contexts.

B1.5 Round decimal numbers, both terminating and repeating, to the nearest tenth, hundredth, or whole number, as applicable, in various contexts.

B1.6 Describe relationships and show equivalences among fractions and decimal numbers up to thousandths, using appropriate tools and drawings, in various contexts.

Grade Seven
Geography

Curriculum Last Updated: 2018

Strand B: Natural Resources around the World: Use and Sustainability

- B1: Analyse aspects of the extraction/harvesting and use of natural resources in different regions of the world, and assess ways of preserving these resources
- B2: Use the geographic inquiry process to investigate issues related to the impact of the extraction/harvesting and/or use of natural resources around the world from a geographic perspective
- B3: Demonstrate an understanding of the sources and use of different types of natural resources and of some of the effects of the extraction/harvesting and use of these resources

Mathematics

Curriculum Last Updated: 2020

B1. Number Sense - Fractions, Decimals, and Percents

B1.4 - Use equivalent fractions to simplify fractions, when appropriate, in various contexts.

B1.5 - Generate fractions and decimal numbers between any two quantities.

B1.6 - Round decimal numbers to the nearest tenth, hundredth, or whole number, as applicable, in various contexts.

B1.7 - Convert between fractions, decimal numbers, and percents, in various contexts.

Science

Curriculum Last Updated: 2007

Understanding Life Systems: Interactions in the Environment

- 1: Assess the impacts of human activities and technologies on the environment, and evaluate ways of controlling these impacts
- 2: Investigate interactions within the environment, and identify factors that affect the balance between different components of an ecosystem
- 3: Demonstrate an understanding of interactions between and among biotic and abiotic elements in the environment

Grade Eight

History

Curriculum Last Updated: 2018

Strand A: *Creating Canada, 1850-1890*

- A1: Assess the impact of some key social, economic, and political factors, including social, economic, and/or political inequalities, on various groups and communities, including First Nations, Métis, and Inuit communities, and on the creation and expansion of the Dominion of Canada, between 1850 and 1890
- A2: Use the historical inquiry process to investigate perspectives of different groups and communities, including First Nations, Métis and/or Inuit communities, on some significant events, developments, and/or issues that affected Canada and/or people in Canada between 1850 and 1890
- A3: Describe various significant people, events, and developments in Canada between 1850 and 1890, including the Indian Act, treaties between Indigenous nations and the Crown, and the residential school system, and explain their impact

Mathematics

Curriculum Last Updated: 2020

B1. Number Sense - Fractions, Decimals, and Percents

B1.4 - Use fractions, decimal numbers, and percents, including percents of more than 100% or less than 1%, interchangeably and flexibly to solve a variety of problems.

B2. Operations - Multiplication and Division

B2.6 - Multiply and divide fractions by fractions, as well as by whole numbers and mixed numbers, in various contexts.

B2.7 - Multiply and divide integers, using appropriate strategies, in various contexts.

B2.8 - Compare proportional situations and determine unknown values in proportional situations, and apply proportional reasoning to solve problems in various contexts.

Science

Curriculum Last Updated: 2007

Understanding Structures and Mechanisms: Systems in Action

- 1: Assess the personal, social, and/or environmental impacts of a system, and evaluate improvements to a system and/or alternative ways of meeting the same needs

Understanding Matter and Energy: Fluids

- 1: Analyze how the properties of fluids are used in various technologies, and assess the impact of these technologies on society and the environment
- 2: Investigate the properties of fluids

Understanding Earth and Space Systems: Water Systems

- 1: Assess the impact of human activities and technologies on the sustainability of water resources
- 2: Investigate factors that affect local water quality
- 3: Demonstrate an understanding of the characteristics of the earth's water systems and the influence of water systems on a specific region

Grade Nine

Geography

Curriculum Last Updated: 2018

Strand B: Interactions in the Physical Environment

- B1: The Physical Environment and Human Activities: analyze various interactions between physical processes, phenomena, and events and human activities in Canada
- B2: Interrelationships between Physical Systems, Processes, and Events: analyze characteristics of various physical processes, phenomena, and events affecting Canada and their interrelationship with global physical systems

- B3: The Characteristics of Canada's Natural Environment: describe various characteristics of the natural environment and the spatial distribution of physical features in Canada, and explain the role of physical processes, phenomena, and events in shaping them

Strand C: Managing Canada's Resources and Industries

- C1: The Sustainability of Resources: analyze impacts of resource policy, resource management, and consumer choices on resource sustainability in Canada
- C2: The Development of Resources: analyze issues related to the distribution, availability, and development of natural resources in Canada from a geographic perspective

Strand E: Liveable Communities

- E1: The Sustainability of Human Systems: analyze issues relating to the sustainability of human systems in Canada
- E2: Impacts of Urban Growth: analyze impacts of urban growth in Canada

Mathematics

Curriculum Last Updated: 2021

B3. Number Sense and Operations

- B3.4: Solve problems involving operations with positive and negative fractions and mixed numbers, including problems involving formulas, measurements, and linear relations, using technology when appropriate

Science

Curriculum Last Updated: 2008

B. Biology: Sustainable Ecosystems

- B1: Assess the impact of human activities on the sustainability of terrestrial and/or aquatic ecosystems, and evaluate the effectiveness of courses of action intended to remedy or mitigate negative impacts
- B2: Investigate factors related to human activity that affect terrestrial and aquatic ecosystems, and explain how they affect the sustainability of these ecosystems

Grade Ten Science

Curriculum Last Updated: 2008

D. Earth and Space Science: Climate Change

- D1: Analyze some of the effects of climate change around the world, and assess the effectiveness of initiatives that attempt to address the issue of climate change
- D2: Investigate various natural and human factors that influence Earth's climate and climate change
- D3: Demonstrate an understanding of natural and human factors, including the greenhouse effect, that influence Earth's climate and contribute to climate change

Grade Eleven Biology

Curriculum Last Updated: 2008

B. Diversity of Living Things

- B1: Analyze the effects of various human activities on the diversity of living things

Chemistry

Curriculum Last Updated: 2008

E. Solutions and Solubility

- E1: Analyze the origins and effects of water pollution, and a variety of economic, social, and environmental issues related to drinking water

Environmental Science

Curriculum Last Updated: 2008

B. Scientific Solutions to Contemporary Environmental Challenges

- B1: Analyze social and economic issues related to an environmental challenge, and how societal needs influence scientific endeavors related to the environment
- B2: Investigate a range of perspectives that have contributed to scientific knowledge about the environment, and how scientific knowledge and procedures are applied to address contemporary environmental problems
- B3: Demonstrate an understanding of major contemporary environmental challenges and how we acquire knowledge about them

F. Conservation of Energy

- F1: Assess the impact on society and the environment of the use of various renewable and non-renewable energy sources, and propose a plan to reduce energy consumption
- F3: Demonstrate an understanding of energy production, consumption, and conservation with respect to a variety of renewable and nonrenewable sources

Regional Geography (University/College Prep)

Curriculum Last Updated: 2015

C. Sustainability and Stewardship

- C1: Sustainability and Stewardship of Natural Resources - analyse issues associated with sustainability and stewardship of natural resources in the selected region
- C3: Development Projects/Megaprojects - analyse various issues associated with development projects

E. Dynamics and Change

- E3: Climate Change and Natural Hazards - explain how climate, including climate change, and natural hazards affect the selected region

Grade Twelve

The Environment and Resource Management (University/College Prep)

Curriculum Last Updated: 2015

C: Sustainability and Stewardship of Natural Resources

- C1: Policies and Strategies - analyse the roles and contributions of individuals, governments, and organizations with respect to the sustainable management of the world's natural resources
- C2: Development of Natural Resources - analyse impacts of resource development on the natural and human environment, and assess ways of managing resource development sustainably
- C3: Availability and Use of Natural Resources - assess the availability of various natural resources, and analyse factors affecting their exploitation and use

D: Ecological Systems - Interconnections and Interdependence

- D2: Impacts of Pollution - evaluate impacts of various types of pollution on the natural environment and on human health

E: Community Action

- E1: Developing Solutions - assess a variety of strategies for resolving environmental and natural resource management issues, locally, nationally, and/or globally
- E3: Ecological Footprints - analyse impacts of various human behaviours on the natural environment, and assess the role of behaviour, ethics, and technology in reducing these impacts

World Issues: A Geographic Analysis (University Prep)

Curriculum Last Updated: 2015

B: Spatial Organization - Relationships and Disparities

- B1: Natural Resource Disparities - analyse relationships between quality of life and access to natural resources for various countries and regions

C: Sustainability and Stewardship

- C1: Strategies and Initiatives - analyse strategies and initiatives that support environmental stewardship at a national and global level, and assess their effectiveness in promoting the sustainability of the natural environment
- C3: Caring for the Commons - analyse issues relating to the use and management of common-pool resources

E: Social Change and Quality of Life

- E3: Continuing Challenges - analyse issues relating to human rights, food security, health care, and other challenges to the quality of life of the world's population

Prince Edward Island

Grade Seven

Social Studies

Curriculum Last Updated: 2006

Unit 2: Economic Empowerment

- 7.2.1: Analyze how commodities that lead to economic empowerment have changed
- 7.2.2: Investigate the various ways economic systems empower or disempowering people
- 7.2.3: Analyze trends that could impact future economic empowerment

Unit 4: Cultural Empowerment

- 7.4.3: Analyze the degree of empowerment and disempowerment for Aboriginal peoples in present-day Atlantic Canada during this period

Unit 5: Societal Empowerment

- 7.5.1: Evaluate the conditions of everyday life for the peoples of Canada at the turn of the 20th century

Science

Curriculum Last Updated: 2016

Life Science: Interactions within Ecosystems

- LS1: Explain how different parts of an ecosystem interact and affect each other

Physical Science: Mixtures and Solutions

- PS3: Design and conduct experiments to explore methods of separating mixtures and solutions and extend the impact of those methods on society and the environment

Grade Eight Social Studies

Curriculum Last Updated: 2006

Citizenship

- 8.4.1: Take age appropriate actions that demonstrate the rights and responsibilities of citizenship (local, national and global)
- 8.4.2: Demonstrate an understanding of how citizenship has evolved over time
- 8.4.3: Demonstrate an understanding of the structure and operation of government in Canada under a federal system

Grade Nine Social Studies

Curriculum Last Updated: 2015

Unit 4: Environment in the Global Community

- *SCO 9.4.2:* Analyse factors that contribute to environmental issues
- *SCO 9.4.3:* Investigate a current global environmental issue using an inquiry process

Grade Ten Canadian Studies 401A

Curriculum Last Updated: 2007

Canada's Place in the World

- *GCO:* Students will be expected to demonstrate an understanding of the interactions among people, places, and the environment

Science SCI431A

Curriculum Last Updated: 2019

Unit 1: Ecosystems: Sustainability of Ecosystems

- 318-1: Illustrate the cycling of matter through biotic and abiotic components of an ecosystem by tracking carbon, nitrogen, and oxygen
- 331-6: Analyze the impact of external factors on an ecosystem
- 318-6: Explain how biodiversity of an ecosystem contributes to its sustainability

Grade Eleven Geography 531A

Curriculum Last Updated: 2011

Unit 2: Physical Patterns of the World

- 2.4: Explain the significance of water as a renewable resource

Grade Twelve

Environmental Science 621A

Curriculum Last Updated: 2011

Ecological Principles

- 3.5: Illustrate the cycling of matter through biotic and abiotic components of an ecosystem
- 3.6: Conduct an experiment to measure abiotic factors of an ecosystem

Natural Resources

- 5.8: Demonstrate an understanding of sustainable water use at local, national, and global levels
- 5.9: Evaluate the significance of water resources for international relations

Environmental Challenges and Successes

- 6.10: Summarize the main types, sources and effects of water pollution
- 6.11: Explain strategies that reduce air and water pollution
- 6.12: Conduct an experiment to determine water pollutants
- 6.13: Identify the types of solid domestic waste
- 6.14: Evaluate pollution management strategies from solid domestic waste on Prince Edward Island
- 6.15: Propose a course of action on a social issue related to waste management, taking into account human, economic, and environmental needs

Quebec

Elementary Cycle One Science and Technology

Curriculum Last Updated: 2011

Earth and Space

A. Matter

- 3: Transformation of matter

Living Things

D. Systems and interaction

- 1: Interactions between living organisms and their environment
- 2: Use of living things for consumption

Elementary Cycle Two and Three Science and Technology

Curriculum Last Updated: 2011

Earth and Space

A. Matter

- 3: Transformation of matter

Living Things

B. Energy

- 1: Sources of energy for living things

D. Systems and interaction

- 3: Interaction between humans and their environment

Mathematics

Curriculum Last Updated: 2011

Arithmetic

Understanding and Writing Numbers

- B: Fractions (using objects or drawings)
- D: Using Numbers

Operations Involving Numbers: Natural Numbers

- A: Natural numbers (based on the benchmarks for each cycle)

Secondary Cycle Two

Contemporary World (four credits)

Curriculum Last Updated: 2011

Environmental Awareness and Consumer Rights and Responsibilities

Environment

- Sustainable development

Saskatchewan

Grade Six

Math

Curriculum Last Updated: 2009

Numbers

- N6.5: Demonstrate understanding of percent (limited to whole numbers to 100) concretely, pictorially, and symbolically. [C, CN, PS, R, V]
- N6.6: Demonstrate understanding of integers concretely, pictorially, and symbolically. [C, CN, R, V]
- N6.7: Extend understanding of fractions to improper fractions and mixed numbers. [CN, ME, R, V]
- N6.8: Demonstrate an understanding of ratio concretely, pictorially, and symbolically

Science

Curriculum Last Updated: 2009

Life Science: Diversity of Living Things (DL)

- DL6.1: Recognize, describe, and appreciate the diversity of living things in local and other ecosystems, and explore related careers

Social Studies

Curriculum Last Updated: 2009

Resources and Wealth

- RW6.1: Examine and analyze factors that contribute to quality of life, including material and non-material factors
- RW6.2: Contribute to initiating and guiding change in local and global communities regarding environmental, social, and economic sustainability

Grade Seven

Math

Curriculum Last Updated: 2007

Number

- N7.2: Expand and demonstrate understanding of the addition, subtraction, multiplication, and division of decimals to greater numbers of decimal places, and the order of operations. [C, CN, ME, PS, R, T]

- N7.3: Demonstrate an understanding of the relationships between positive decimals, positive fractions (including mixed numbers, proper fractions and improper fractions), and whole numbers. [C, CN, ME, R, T]
- N7.4: Expand and demonstrate an understanding of percent to include fractional percents between 1% and 100%. [C, PS, R]

Science

Curriculum Last Updated: 2009

Life Science: Interactions within Ecosystems (IE)

- IE7.4: Analyze how ecosystems change in response to natural and human influences, and propose actions to reduce the impact of human behaviour on a specific ecosystem. [DM, CP]

Social Studies

Curriculum Last Updated: 2009

Resources and Wealth

- RW7.2: Investigate the influence of resources upon economic conditions of peoples in circumpolar and Pacific Rim countries

Grade Eight

Math

Curriculum Last Updated: 2008

Number

- N8.2: Expand and demonstrate understanding of percents greater than or equal to 0% (including fractional and decimal percents) concretely, pictorially, and symbolically. [CN, PS, R, V]
- N8.3: Demonstrate understanding of rates, ratios, and proportional reasoning concretely, pictorially, and symbolically. [C, CN, PS, R, V]
- N8.4: Demonstrate understanding of multiplying and dividing positive fractions and mixed numbers, concretely, pictorially, and symbolically. [C, CN, ME, PS]
- N8.5: Demonstrate understanding of multiplication and division of integers concretely, pictorially, and symbolically. [C, CN, PS, R, V]

Science

Curriculum Last Updated: 2009

Earth and Space Science: Water Systems on Earth (WS)

- WS8.1: Analyze the impact of natural and human-induced changes to the characteristics and distribution of water in local, regional, and national ecosystems

Social Studies

Curriculum Last Updated: 2009

Resources and Wealth

- RW8.1: Analyze the social and environmental consequences of living in the Canadian mixed market economy based on consumerism
- RW8.2: Assess the implications of personal consumer choices

Grade Nine

Mathematics

Curriculum Last Updated: 2009

Patterns and Relations

- P9.1: Demonstrate understanding of linear relations
- P9.2: Model and solve situational questions using linear equations where a , b , c , d , e , and f are rational numbers

Social Studies

Curriculum Last Updated: 2009

Dynamic Relationships

- DR9.3: Assess the relationship of the natural environment in the development of a society

Grade Ten

Science

Curriculum Last Updated: 2016

Climate and Ecosystem Dynamics

- SCI-CD1: Assess the implications of human actions on the local and global climate and the sustainability of ecosystems.

Grade Eleven

Environmental Science

Curriculum Last Updated: 2017

Human Population and Pollution

- ES20-HP1: Investigate technologies and processes used for mitigating and managing resource use, waste generation and pollution associated with a growing human population.

Native Studies

Curriculum Last Updated: 1992

Unit Three: Social Justice Case Studies and Readings

- Develop an understanding and increased awareness of the social justice issues and realities of Indigenous peoples in Canada and internationally
- Become aware of specific situations of social injustice, historical and current

Social Studies

Curriculum Last Updated: 1994

Unit Three: Environment

- Know that the environment is a complex system of interacting, interdependent, living and non-living parts, with the whole environment being greater than the sum of each part
- Know that resources are those parts of the environment considered valuable because they meet human needs

Grade Twelve

Social Studies

Curriculum Last Updated: 1997

Unit Two: Economic Development

- Know that standard of living is a set of criteria which defines human well-being, and if the criteria change, then the definition of standard of living changes

Yukon

See British Columbia's Curriculum

The British Columbia program of studies forms the basis of the Yukon curriculum.